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FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. APPLICATION NO. FILING DATE 01/14/2002 Hyo-Jong Lee 5649-968 6423 10/046,805 20792 05/07/2003 MYERS BIGEL SIBLEY & SAJOVEC EXAMINER PO BOX 37428 KILDAY, LISA A RALEIGH, NC 27627 ART UNIT PAPER NUMBER 2829

DATE MAILED: 05/07/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

				r
		Application No.	Applicat(s)	
Office Action Summary		10/046,805	LEE ET AL.	•
		Examiner	Art Unit	
_		Lisa A Kilday	2829	
Period fo	The MAILING DATE of this communication ap or Reply	pears on the cover sheet with	the correspondence addres	s
THE - Exte after - If the - If NC - Failt - Any	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. o period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by statutively received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	.136(a). In no event, however, may a reply oly within the statutory minimum of thirty (3 I will apply and will expire SIX (6) MONTH te, cause the application to become ABAN	y be timely filed 10) days will be considered timely. S from the mailing date of this communication DONED (35 U.S.C. § 133).	nication.
1)🖂	Responsive to communication(s) filed on 14	January 2002 .	,	
2a) <u></u>	This action is FINAL . 2b)⊠ T	his action is non-final.		
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposit	ion of Claims			
]	Claim(s) <u>1-62</u> is/are pending in the application			
	4a) Of the above claim(s) is/are withdra	awn from consideration.		
5)	Claim(s) is/are allowed.			
6)	Claim(s) is/are rejected.			
7) 🗆	Claim(s) is/are objected to.			
-	Claim(s) <u>1-62</u> are subject to restriction and/or ion Papers	election requirement.		
9) 🗌 '	The specification is objected to by the Examin	er.		
10)	The drawing(s) filed on is/are: a)☐ acce	epted or b) objected to by the	Examiner.	
	Applicant may not request that any objection to ti	he drawing(s) be held in abeyanc	e. See 37 CFR 1.85(a).	
11) 🔲	The proposed drawing correction filed on	_ is: a)□ approved b)□ disa	pproved by the Examiner.	
	If approved, corrected drawings are required in re	eply to this Office action.		
12) 🗌	The oath or declaration is objected to by the E	xaminer.		
Priority (ınder 35 U.S.C. §§ 119 and 120			
13)	Acknowledgment is made of a claim for foreig	n priority under 35 U.S.C. § 1	19(a)-(d) or (f).	
a)	☐ All b)☐ Some * c)☐ None of:			
	1. Certified copies of the priority documen	its have been received.		
	2. Certified copies of the priority documen	its have been received in Appl	lication No	
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
	Acknowledgment is made of a claim for domes			lication).
a) The translation of the foreign language pr Acknowledgment is made of a claim for domes	ovisional application has beer	n received.	·
Attachmen	-	, , ,		
1)	te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Info	nmary (PTO-413) Paper No(s) rmal Patent Application (PTO-152	
U.S. Patent and T PTO-326 (Re		Action Summary	Part of Pap	er No. 3

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Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

Claims 1-26, 34-62, are drawn to method of forming a metal layer in an 1. integrated circuit device, classified in class 438, subclass 674.

II. Claims 27-33, drawn to a conductive contact, classified in class 257, subclass 734.

The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case, the conductive contact could be formed by the alternative method of electroless plating.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Species Restriction for Group I:

Group I contains claims directed to the following patentably distinct species of the claimed invention:

A method of forming a metal layer in an integrated circuit device with:

Species I: figs. 2-5

Species II: figs. 6-8

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Species III: figs. 9-11

Species IV: figs. 12-21.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species (*if electing Group I*) for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, no claim is generic. The applicant must elect one invention from Group I or II. If the applicant elects Group I, the applicant must specify which Species (I-VIII) he is electing. The applicant must choose a Species when electing Group I.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over

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the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

A telephone call was made to Robert Crouse on 4/22/03 to request an oral election to the above restriction requirement, but did not result in an election being made.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Conclusion

Any inquiry of a general nature or relating to the status of this application should be directed to the Group Receptionist whose telephone number is (703) 308-0957. See MPEP 203.08.

Any inquiry concerning this communication from the examiner should be directed to Lisa Kilday whose telephone number is (703) 306-5728. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kamand Cuneo, can be reached on (703) 308-1233. The fax number for the group is (703) 305-3432. MPEP 502.01 contains instructions regarding procedures used in submitting responses by facsimile transmission.

Lisa Kilday

LAK

4/22/03

KAMAND CUNEO

SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800